Driveshaft Bearing Alignment

222662 Driveline Support Bearings

Driveshaft installations in some Wagner Equipment may require multiple drive shafts supported by carrier bearings, therefore proper driveshaft installation and alignment is critical to insure drive train life expectancies. Check drivelines and supports for proper alignment. (Repair as needed)

CHECKING DRIVESHAFT ALIGNMENT

1. **Start your alignment check by making sure that the machine is safely parked with the bogie straight so that both the bogie and the chassis are on a common centerline.**
2. **With the bogie straight, the driveline assemblies and bearings can now be checked for proper alignment.**

a. **First, check the rear group of drivelines by making certain that drivelines, item # 1, 2 and 3 as shown in Figure 4, are on a common centerline.**

b. **Check driveline item #2 for proper fit, making certain that the distances shown as dimensions A and B at the bogie hinge pin are equal see Figure 4.**

c. **Next use a square as shown in Figure 1 and an angle finder as shown in Figures 2 and 3 to check the driveline supports for proper alignment to the driveline. Driveline supports must be perpendicular to the centerline of the drivelines. See details A & B of Figure 4.**

d. **The next driveline group shown as items #4 and #5 in Figure 4, should be checked to see that they are in a continuous straight line with each other, have a common centerline and that the driveline support is perpendicular to the centerline of the drivelines. See details C & D of Figure 4.**

e. **The front driveline group, items #6 and #7, should be checked using the same process as the previous groups, making certain that the drivelines are in a continuous straight line and that the driveline supports are aligned properly with the driveline.**

f. **Proper driveshaft phasing is also critical to achieving an acceptable life expectancy, therefore phasing should be checked and setup according to specific machine drawings.**

g. **For proper driveshaft phasing of Wagner L4160-110 see Allied Systems Service Instruction 80-569.**

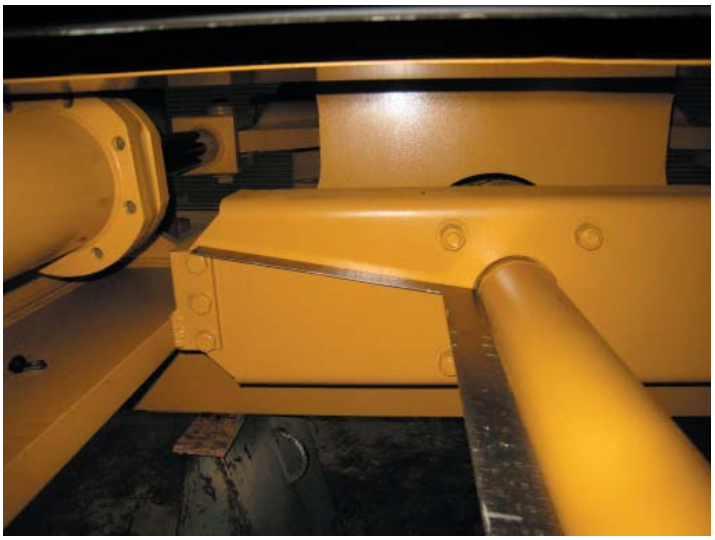

Figure 1: Using square to check driveline support is perpendicular to the center line of the driveline.

Figure 2: Using a magnetic angle detector to check driveline support is perpendicular to the center line of the driveline.

Figure 3: Using a magnetic angle detector to check driveline support is perpendicular to the center line of the driveline.

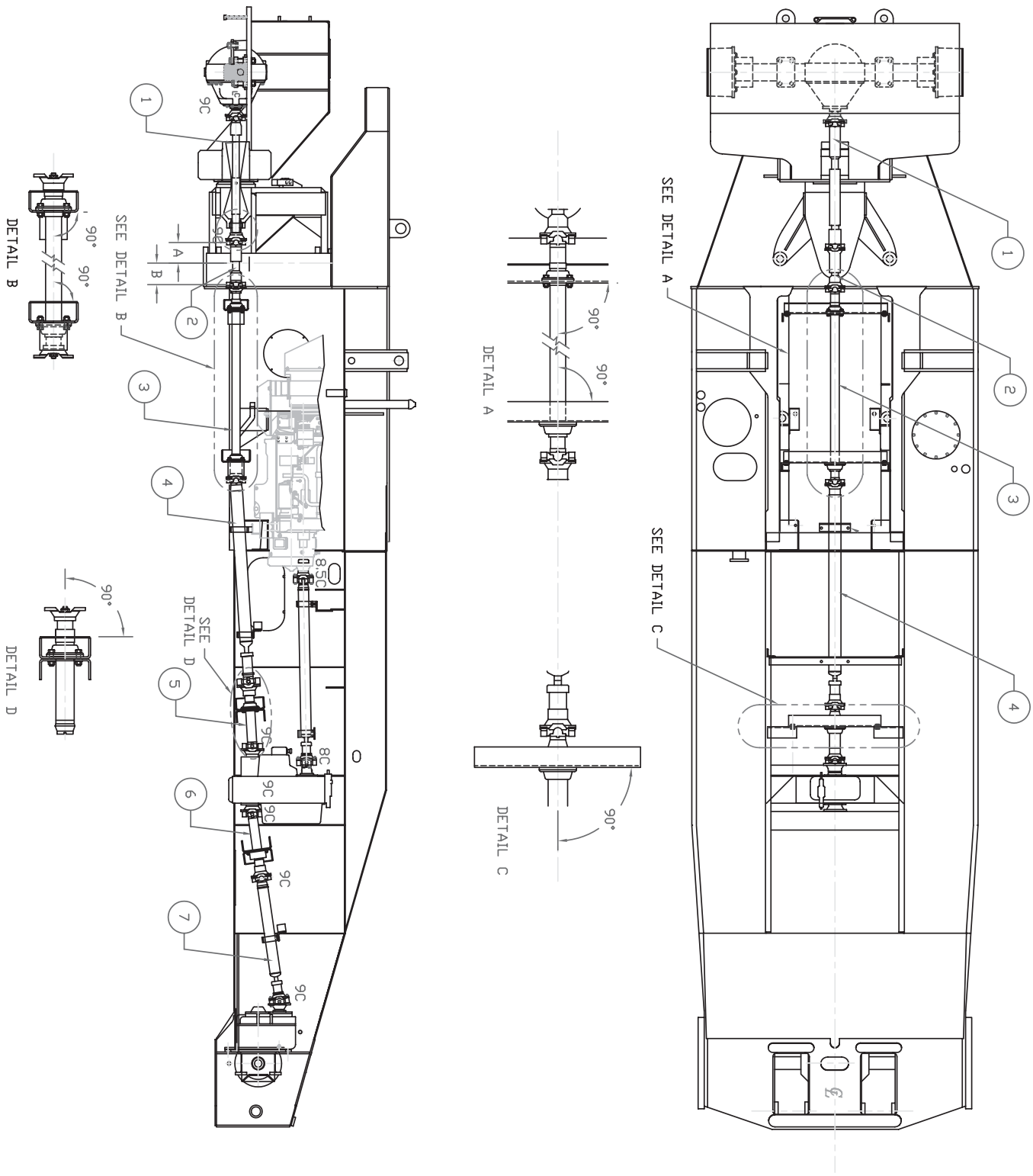
SEE DETAIL A
SEE DETAIL B
SEE DETAIL C
SEE DETAIL D
DETAIL A
DETAIL B
DETAIL C
DETAIL D
90°
A
B
1
2
3
4
5
6
7
9C
8C
8.5C

Figure 4